

# Simon's Technology Corner

## Interesting Frequencies

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On this page we are going to look at some of the things that every user with a Radio, Scanner or SDR can expect to find around the different bands. There is a wide spectrum of different signals that can be heard from the LF frequencies ranging up to the L-Band.

**Some examples are :**

- AM Broadcast stations from all the corners of the world.
- Amateur radio broadcasts.
- Satellite Transmissions of various types.
- commercial broadcasts (Private large corporate businesses.).
- Government Broadcasts.
- Pager Signals.
- Aircraft.
- Marine Signals.

**Examples of types of transmissions are :**

- AM
- FM
- USB
- LSB
- CW
- Digital modes (Navtex, Fax, RTTY, PK31, DRM, plus many more types.)

**NOTE:** Most HF digital modes transmit on LSB. When you get into the VHF frequencies they may be

on FM. It's rare to find a digital mode on AM.

These are just a few of the different modes and types of transmissions that you may encounter from time to time as you scan through the frequencies of your chosen listening device. I highly recommend you use an all mode receiver on the HF,VHF,UHF and L-Band bands for the greatest listening pleasure.

### **Examples of receivers:**

- All mode general coverage receiver with some VHF bands.
- Homebrew SDR ( On the bands of interest ).
- TV Dongle (with an up converter for the HF bands.).
- USRP
- Web-based SDR (See Links at the bottom of the page.)

So Lets begin to list some examples of what can be heard in which parts of the radio spectrum. I will only be listing unusual items as the more common items most people already know about.

### **Examples of interesting HF signals:**

60 kHz ..... Universal time signal.

135 – 138 kHz ..... LF Amateur Band.

472 – 479 kHz ..... MF Amateur Band.

490 – 518 kHz ..... Navtex (Weather and Warning messages for ships.).

**NOTE :** Time signals can also be found on 2.5, 5, 10, 15, 20 & 25 MHz on the HF band. Not all time signals can be heard in all time zones.

### **Examples of interesting VHF/UHF Signals:**

118.000 – 136.000 Mhz ... Aircraft Band – Some Interesting signals.

137.000 – 138.000 Mhz ... NOAA APT Weather Satellites.

145.200 – 145.200 Mhz ... FM/DV Space communications Earth-Space.

145.800 – 145.800 Mhz ... FM/DV Space communications Space-Earth.

432.000 – 432.025 MHz ... Moonbounce.

There are so many interesting frequencies in all parts of the HF, VHF & UHF Bands, too many to list in a humble small blog page. All i can do is highlight some and point you in the right direction, And let you discover a world of information and new signals for yourself. Ok Friends that's all for this page. I hope you will all have fun and an intersting time discovering a hidden world of signals you never knew existed...

Best Regards

Simon

### **Interesting links:**

WebSDR

An internet HF SDR that covers 1 kHz – 29.1 Mhz. It’s a good starting point if you’re not sure that you want to buy/build a software defined radio.

### WebSDR Directory

Directory of Internet-based SDR’s. Most only cover the Amateur bands with the exception of the above link.

### Amateur Radio Banplans

Band plans For all the amateur bands from 136 kHz to 134 GHz. (Yes my friends it’s not a typo it is actually 134 GHz).

### VHF / UHF Frequency List

This Page is titled for the uk but if you look down the list you will see some European and American frequencies listed also. This list is very interesting for most of the readers. This one is included for Benny (97hs178), I hope this helps you Benny.

### Global Tuners Database

Frequency database, It covers a lot of frequencies so you can identify the broadcast stations that you may hear. This one has some VHF frequencies.

### MW List Database

Another frequency database, with a similar database to the link above. I believe this site only mainly covers the HF band Frequencies.

**Note:** The Bottom 2 Links are for finding out what the broadcast station is that your listening too. I am sure there are many more websites that offer the same service for frequencies up to the UHF bands, But I have not found them yet !!

6 Comments »

## 6 Responses to “Interesting Frequencies”

*GEORGE HOLLIS* Says:

January 26, 2013 at 1:40 pm

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nice blog simon

Reply

*Ian* Says:

January 26, 2013 at 9:22 pm

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Thank you Simon. Very much appreciated my friend. 73's

Reply

*100hs131* Says:

January 27, 2013 at 12:48 am

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Thanks Simon. Gives a good overall view and will check out the links for more detail. 73s.

Reply

*Ron* Says:

August 31, 2013 at 1:29 pm

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Nice blog Simon. Navtex is transmitted on 490 kHz and 518 kHz usb with a BW of 170 Hz. Mind you, not on 510 kHz! Remind you, there are a huge amount of NDB beacons signals to be heard in between 187 kHz and 1290 kHz. All are transmitting in CW. In the same region one can decode many DGPS transmissions. These signals are heard worldwide.

73'

Reply

*Simon* Says:

August 31, 2013 at 1:38 pm

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Thanks for the post Ron, Apologies about the typo and thanks for the spotting it. The typo has now been corrected, If you have any specific frequencies or links to frequency charts that you would like to submit to the page then please don't hesitate to post them.

Best Regards

Simon

Reply

*Sven* Says:

October 11, 2014 at 8:53 pm

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Thanks for mentioning GFD, Simon! As a side note, most of the freqs are on HF and although there are a few broadcasters, ham radio beacons and repeaters listed, its main focus are utility stations and military. However, users can add frequencies and I accept pretty much everything.



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